

RETROFIT EXISTING INFRASTRUCTURE

1. PURPOSE

- a. Develop and implement a plan/guidance to assess existing infrastructure, identify developed sites that are adversely impacting water quality, assess existing flood management structural controls to determine whether changes or additions should be made, and identify potential retrofit needs.

2. PROCESS

- a. Confirm storm drain system inventory:
 - Map all outfalls (Program 3.1-1).
 - Map all city-owned or operated storm water post-construction structural controls (Program 3.1-2).
 - Verify existing public storm water system mapping (Program 3.1-3).
 - Maintain current storm water facilities map by logging updates (Program 3.1-4).
- b. Review map of existing storm water system.
- c. Evaluate existing Post-Construction BMPs for retrofitting opportunities.
- d. Look at sub-catchments/drainage areas – prioritize based on land use, impaired waters, and sensitive areas.
- e. Start with High Priority areas:
 - Start at downstream end and look for property or opportunities to retrofit existing system for water quality.
 - Review list of possible post-construction BMPs.
 - Work upstream to the upper ends of the high priority areas.
 - Compile a list of potential projects.
 - Create budgetary level costs for each project.
 - Prioritize projects.
 - Document findings – including reasons for prioritization.
 - Integrate this list with existing Storm Drain Capital Improvement Projects.
- f. Repeat for Medium Priority areas.
- g. Repeat for Low Priority areas.

- h. Budget for and implement projects.
- i. Consider retrofit options with all redevelopment projects.

3. QUESTIONS TO ASK WHEN CONSIDERING RETROFITS

- a. Are there any highly impacted areas?
- b. Why are these areas highly impacted?
- c. Where are they?
- d. How does the existing system work in this area?
- e. What BMPs might address the problems?
- f. Is there room to retrofit at the end of the line?
- g. Would projects upstream maximize water quality and minimize impacts?
- h. What are the anticipated costs?
- i. How soon can this be programmed?
- j. Do we have retrofitting requirements when redeveloping?

4. DOCUMENTATION

- a. SOP posted on website and followed.